

13003

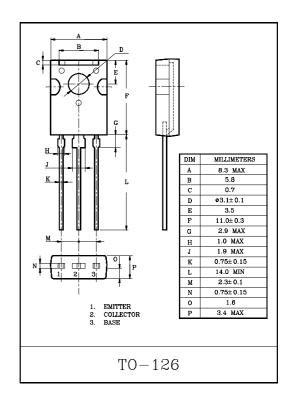
SWITCHING REGULATOR APPLICATION. HIGH VOLTAGE AND HIGH SPEED SWITCHING APPLICATION.

FEATURES

- · Excellent Switching Times
- : t_{on} =1.1 μ S(Max.), t_{f} =0.7 μ S(Max.), at I_{C} =1A
- High Collector Voltage : V_{CBO}=700V.

MAXIMUM RATINGS (Ta=25℃)

CHARACTERI	SYMBOL	RATING	UNIT		
Collector-Base Voltage		V_{CBO}	700	V	
Collector-Emitter Voltage		V_{CEO}	400	V	
Emitter-Base Voltage		V_{EBO}	9	V	
Collector Current	DC	$I_{\rm C}$	1.5	A	
	Pulse	I_{CP}	3		
Base Current		$I_{ m B}$	0.75	A	
Collector Power Dissipation (Tc=25°C)		Pc	20	W	
Junction Temperature		$T_{\rm j}$	150	$^{\circ}$	
Storage Temperature Range		T_{stg}	-65~150	\mathbb{C}	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	V_{EB} =9 V , I_{C} =0	-	=	10	μА
DC Current Gain	h _{FE} (1)Note	$V_{CE}=2V$, $I_{C}=0.5A$	19	-	36	
	h _{FE} (2)	$V_{CE}=2V$, $I_{C}=1A$	5	-	25	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I_{C} =0.5A, I_{B} =0.1A	-	_	0.5	V
		$I_{C}=1A$, $I_{B}=0.25A$	-	-	1	
		I_{C} =1.5A, I_{B} =0.5A	_	-	3	
Base-Emitter Saturation Voltage	$V_{BE(\text{sat})}$	I_{C} =0.5A, I_{B} =0.1A	_	-	1	V
		$I_{C}=1A$, $I_{B}=0.25A$	-	-	1.2	
Collector Output Capacitance	Cob	V_{CB} =10V, f=0.1MHz	-	21	-	рF
Transition Frequency	f_{T}	V_{CE} =10V, I_{C} =0.1A	4	-	-	MHz
Turn-On Time	t_{on}	I_{B1} I_{B2}	_	_	1.1	μS
Storage Time	$t_{ m stg}$		_	_	4.0	μS
Fall Time	t_{f}	$I_{B1} = I_{B2} = 0.2A$ $V_{CC} = 125V$ DUTY CYCLE $\leq 2\%$	_	_	0.7	μS

Note : $h_{FE}(1)$ Classification : O:19~28 , Y:26~36

Web Site: WWW.PS-PFS.COM



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